

# Math 10 Foundations and Pre-Calculus – Online resources

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## **Chapter 1 - Number**

|   |                      |                        |
|---|----------------------|------------------------|
| <a href="#">Rational and irrational numbers</a> | <a href="#">quiz</a> |                        |
| Simplifying radicals                            | <a href="#">quiz</a> | <a href="#">quiz 2</a> |

## **Chapter 2 - Exponents**

|                                      |                      |                        |
|--------------------------------------|----------------------|------------------------|
| <a href="#">Exponent Laws</a>        | <a href="#">quiz</a> |                        |
| Multiplying/dividing monomials       | <a href="#">quiz</a> | <a href="#">quiz 2</a> |
| <a href="#">Negative Exponents</a>   | <a href="#">quiz</a> |                        |
| <a href="#">Fractional exponents</a> | <a href="#">quiz</a> |                        |

## **Chapter 3 - Measurement**

|   |                      |                        |                        |
|---|----------------------|------------------------|------------------------|
| <a href="#">Pythagorean theorem</a>               | <a href="#">quiz</a> | <a href="#">quiz 2</a> | <a href="#">quiz 3</a> |
| <a href="#">Conversion of length</a>              | <a href="#">quiz</a> |                        |                        |
| <a href="#">Convert Imperial to metric units</a>  | <a href="#">quiz</a> |                        |                        |
| <a href="#">Convert metric to imperial units</a>  | <a href="#">quiz</a> |                        |                        |
| <a href="#">Volume and surface area of prisms</a> | <a href="#">quiz</a> |                        |                        |
| <a href="#">Cylinders</a>                         | <a href="#">quiz</a> |                        |                        |
| <a href="#">Cones</a>                             | <a href="#">quiz</a> |                        |                        |
| <a href="#">Spheres</a>                           | <a href="#">quiz</a> |                        |                        |
| <a href="#">Pyramids</a>                          | <a href="#">quiz</a> |                        |                        |

## **Chapter 4 - Trigonometry**

|                                     |                      |
|-------------------------------------|----------------------|
| <a href="#">Trigonometry ratios</a> | <a href="#">quiz</a> |
| <a href="#">Finding an angle</a>    | <a href="#">quiz</a> |
| <a href="#">Finding a side</a>      | <a href="#">quiz</a> |

## **Chapter 5 – Polynomial operations**

|   |                      |                        |   |
|---|----------------------|------------------------|---|
| <a href="#">Polynomials</a>                           | <a href="#">quiz</a> | <a href="#">quiz 2</a> | <a href="#">quiz 3</a>                        |
| <a href="#">Addition / Subtraction of polynomials</a> | <a href="#">quiz</a> | <a href="#">quiz 2</a> | <a href="#">quiz 3</a> <a href="#">quiz 4</a> |

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[Multiplying polynomials](#)

[quiz](#)

[quiz 2](#)

[quiz 3](#)

[quiz 4](#)

## **Chapter 6 – Factoring polynomial expressions**

[Factoring](#)

[quiz](#)

Factoring – GCF

[quiz](#)

Factoring trinomials

[quiz](#)

[quiz 2](#)

Factoring difference of squares

[quiz](#)

Factoring perfect squares

[quiz](#)

## **Chapter 7 – Relations and Functions**

Relations and functions

[quiz](#)

[quiz 2](#)

[quiz 3](#)

[Functions](#)

[quiz](#)

[quiz 2](#)

[Domain and range](#)

[quiz](#)

## **Chapter 8 – Characteristics of linear relations**

[Slope of a line](#)

[quiz](#)

[quiz 2](#)

## **Chapter 9 – Equations of linear relations**

Graphing linear equations

[quiz](#)

[quiz 2](#)

Parallel and perpendicular lines

[quiz](#)

[Equation of a straight line](#)

[quiz](#)

[quiz 2](#)

[quiz 3](#)

[quiz 4](#)

[Point-slope equation of a line](#)

[quiz](#)

## **Chapter 10 – Systems of Linear Equations**

Graphing systems of linear equations

[quiz](#)

[Solving systems using substitution](#)

[quiz](#)

Solving using elimination

[quiz](#)

[quiz 2](#)

Systems – mixture problems

[animation](#)

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- [eWorkbook for algebra 1](#) (functions, real numbers, graphing linear equations, writing linear equations, systems of linear equations, exponents, polynomials)
- [eWorkbook](#) for geometry (parallel and perpendicular lines, trigonometry, SA and volume)
- [eWorkbook for Algebra Readiness](#) (basics)